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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,768	12/21/2004	Fukumi Morishige	122196	4924
25944 OLIFF & BER	7590 07/10/200 RIDGE PLC	EXAMINER		
P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			HUGHES, ALICIA R	
			ART UNIT	PAPER NUMBER
			1614	
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			07/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

#### 10/518,768 MORISHIGE, FUKUMI Office Action Summary Examiner Art Unit

Application No.

Applicant(s)

	ALICIA R. HUGHES	1614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1:3 after SIX (6) MCNT18 from the mailing date of this communication. The state of the communication of the commun	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim Il apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. ely filed the mailing date of this o O (35 U.S.C. § 133).	,			
Status						
1) Responsive to communication(s) filed on 21 De 2a) This action is FINAL. 2b) This a 3) Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ce except for formal matters, pro		e merits is			
Disposition of Claims						
4) ⊠ Claim(s) 1-9 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) □ Claim(s) is/are allowed.  6) ☒ Claim(s) is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example.	pted or b) objected to by the E rawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign   a) All b) Some col None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No  In this National	Stage			
Attachment(s)						
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413) te				

Attachment(s)		
1)   Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Ref   Information Disclosure Statement(s) (PTO/Paper No(s)/Mail Date	eview (PTO-948) Paper	iew Summary (PTO-413) · No(s)Mail Date e of Informal Patent A∤≱lication :
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#### DETAILED ACTION

### Status of the Claims and Examination

Claims 1-9 are pending and the subject of this Office Action.

Applicant's arguments and amendments filed on 21 December 2007 have been fully considered, but they are not deemed to be persuasive. Rejections and objections not reiterated from previous office actions are hereby withdrawn.

The following rejections are reiterated and expounded upon, and they constitute the complete set presently being applied to the instant application.

### Claim Rejections 35 U.S.C. §112.1

The following is a quotation of the first paragraph of 35 U.S.C. §112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention.

Applicant argues that mitochondrial disease is clearly defined in the specification as those disorders of the body in which mitochondria are abnormal in their shape, function, and DNA.

As stated previously, this does not go far enough in showing Applicants' possession of their claimed invention. The specification is written broadly, and simply notes types of mitochondrial diseases, such as chronic progressive external ophthalmoplegia, myoclonus epilepsy associated with ragged-red fibers, MELAS, Leber's (Specification, page 14, lines 11-12). In short, the specification fails to clearly define mitochondrial disease, and the reference provided is insufficient to meet the written description proviso of 35 U.S.C. 112, first paragraph.

In view of the foregoing and for the reasons previously made of record, the rejection is maintained.

## Claim Rejection - 35 USC § 102

The following is a quotation of 35 U.S.C. 102(e) which forms the basis for all obviousness rejections set forth in this Office Action:

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Publication No. 2003-335664 [hereinafter referred to as "Fukumi et al"]. Application/Control Number: 10/518,768

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The teachings of Fukumi et al and reference to McFarland et al in this Office's action of 21 Sentember 2007 are incorporated herein by reference in their entirety.

Applicant argues that Fukumi et al only discloses preventing cerebrospinal system neurotrophy by preventing an imbalance between lysine and arginine, but does not bear any relation to the treatment of mitochondrial disease and neither is indicative of the other.

As noted in this Office's previous action, Fukumi et al do essentially anticipate all of the functional claims of the present application. While Fukumi et al do not explicitly purport to treat mitochondrial diseases, inherent in its treatment of, for example, myoclonus syndrome and encephalopathy (See page 2 of 19, paragraph 10) by increasing the bioavailability of L-arginine content, is the treatment of mitochondrial disease. See generally, McFarland, Robert, et al., "The Neurology of Mitochondrial DNA Disease," Neurology, Vol. 1, pages 343-351 (October 2002)(noting mitochondrial neurogastrointestinal encephalopathy syndrome, mitochondrial encephalopathy lactic acidosis and stroke-like episodes, and myoclonus epilepsy with ragged red fibres as mitochondrial diseases, and the same are disclosed as treated by the prior art). <sup>1</sup>

In consideration of the foregoing, the instant invention was clearly anticipated by the art disclosed for the reasons made of record.

#### Conclusion

No claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

<sup>1</sup> Cited on PTO Form 892 on 21 September 2007.

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Hughes whose telephone number is 571-272-6026. The examiner can normally be reached from 9:00 AM to 5:00 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, can be reached at 571-272-0718. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR of Public PAIR. Status information for unpublished applications is available through Public PAIR only. For information about the PAIR system, see <a href="http://pair-direct-uspto.gov">http://pair-direct-uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Alicia R. Hughes/

Examiner, Art Unit 1614

/Raymond J Henley III/ Primary Examiner, Art Unit 1614